Performance Data Sheet

AWH5516EXN

General Information

Model	AWH5516EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4080	3430					
	Watts	672	656					
	Amps	3.04	3.03					
	Lb/h	52.8	46.0					
-10	Btu/h	4840	4140	3430				
	Watts	725	719	701				
	Amps	3.27	3.29	3.25				
	Lb/h	62.3	55.1	47.5				
-5	Btu/h	5800	5030	4240	3460			
	Watts	777	781	774	754			
	Amps	3.49	3.55	3.55	3.49			
	Lb/h	74.1	66.6	58.5	49.9			
0	Btu/h	6970	6110	5240	4380	3520		
	Watts	826	842	846	836	814		
	Amps	3.71	3.81	3.85	3.83	3.74		
	Lb/h	88.4	80.4	71.8	62.6	52.9		
5	Btu/h	8340	7390	6430	5460	4510		
	Watts	873	901	916	918	906		
	Amps	3.91	4.06	4.15	4.18	4.13		
	Lb/h	105	96.6	87.4	77.6	67.1		
10	Btu/h	9920	8870	7800	6730	5660	4620	3600
	Watts	914	957	985	998	998	983	954
	Amps	4.10	4.30	4.45	4.53	4.53	4.45	4.27
	Lb/h	124	115	105	94.8	83.5	71.5	58.7
15	Btu/h	11700	10600	9360	8170	6990	5810	4670
	Watts	950	1010	1050	1080	1090	1080	1070
	Amps	4.27	4.52	4.73	4.86	4.92	4.89	4.77
	Lb/h	146	136	126	114	102	89.2	75.4
20	Btu/h	13700	12400	11100	9800	8480	7170	5880
	Watts	980	1050	1110	1150	1180	1190	1180
	Amps	4.40	4.72	4.99	5.18	5.30	5.34	5.27
	Lb/h	170	159	148	136	123	109	94.3

25	Btu/h	16000	14500	13100	11600	10200	8690	7260
	Watts	1000	1090	1160	1220	1260	1280	1290
	Amps	4.51	4.89	5.22	5.49	5.67	5.77	5.77
	Lb/h	196	185	173	160	146	131	115
30	Btu/h	18400	16900	15200	13600	12000	10400	8790
	Watts	1010	1120	1210	1290	1340	1380	1400
	Amps	4.57	5.03	5.43	5.77	6.02	6.19	6.26
	Lb/h	225	213	200	187	172	156	139
35	Btu/h	21100	19400	17600	15800	14000	12200	10500
	Watts	1020	1140	1250	1340	1410	1470	1500
	Amps	4.59	5.13	5.60	6.02	6.35	6.59	6.73
	Lb/h	256	244	230	215	200	182	164
40	Btu/h	24100	22100	20200	18200	16300	14300	12300
	Watts	1010	1160	1280	1390	1480	1550	1600
	Amps	4.55	5.18	5.74	6.23	6.64	6.96	7.18
	Lb/h	290	277	262	246	230	211	192
45	Btu/h	27200	25100	23000	20800	18700	16500	14400
	Watts	990	1160	1310	1430	1540	1630	1700
	Amps	4.46	5.17	5.82	6.40	6.90	7.30	7.60
	Lb/h	326	312	297	280	262	242	222
50	Btu/h	30600	28300	26000	23600	21300	18900	16500
	Watts	956	1150	1320	1460	1590	1700	1790
	Amps	4.31	5.12	5.86	6.52	7.11	7.60	8.00
	Lb/h	365	350	333	316	296	276	254
55	Btu/h	34200	31700	29200	26600	24100	21500	18900
	Watts	909	1120	1310	1480	1630	1760	1870
	Amps	4.10	5.00	5.83	6.60	7.28	7.87	8.35
	Lb/h	406	390	373	354	333	311	288

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.229811E+04	2.369054E+02	2.196963E+00	1.314899E+02
C2	3.766981E+02	-1.575228E+01	-3.606511E-02	3.192551E+00
C3	-3.754173E+01	1.254150E+01	1.472626E-02	-3.061254E-01
C4	5.971259E+00	-2.371469E-01	-1.030090E-03	5.530734E-02
C5	-1.354505E+00	3.828079E-01	1.045637E-03	5.690801E-03
C6	-4.985296E-01	-6.511963E-02	1.868896E-04	-2.903308E-03
C7	4.605485E-03	-1.455334E-03	-7.386604E-06	1.358607E-05
C8	-2.272901E-02	2.120743E-03	9.910673E-06	-9.107358E-05
C9	-2.298256E-03	-8.222938E-04	-8.024772E-07	-8.722108E-05
C10	1.683965E-03	5.714913E-06	-1.685717E-06	-4.201614E-08

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature